AdvanceBio Glycan Standards InstantPC, 2-AB, 2-AA, APTS, InstantAB, InstantQ, Unlabeled

Glycan standard structures

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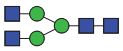
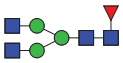
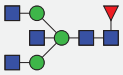
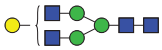
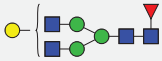
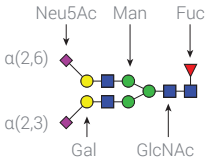
Glycan	ProZyme name	Oxford name[1]	CFG structure	Unlabeled[2]	InstantPC	InstantAB	2-AB	2-AA	InstantQ	APTS
Complex-type Native N-Glycans										
G0-N	NGA2-N	A1			GKPC-401		GKSB-401		GKSQ-401	GKSP-401
G0	NGA2	A2		GKC-004300	GKPC-301	GKIB-301	GKSB-301	GKSA-301	GKSQ-301	GKSP-301
G0F-N	NGA2F-N	F(6)AI			GKPC-402		GKSB-402		GKSQ-402	GKSP-402
G0F	NGA2F	F(6)A2		GKC-004301	GKPC-302	GKIB-302	GKSB-302	GKSA-302	GKSQ-302	GKSP-302
G0FB	NGA2FB	F(6)A2B		GKC-004311			GKSB-303		GKSQ-317	GKSP-317
G1	NA2G1	A2G1		GKC-014300	GKPC-317	GKIB-317	GKSB-317			
G1F	NA2G1F	F(6)A2G1		GKC-014301	GKPC-316	GKIB-316	GKSB-316	GKSA-316	GKSQ-316	GKSP-316

Glycan graphical representations follow the recommendations of the Consortium for Functional Glycomics[3] (CFG) and were drawn using GlycoWorkbench 2.1[4]. Neu5Ac = N-acetylneuraminic acid; Gal = galactose; Man = mannose; GlcNAc = N-acetylglucosamine; Fuc = fucose.

The α(2,3) sialic acid linkage is found on glycoproteins produced in Chinese hamster ovary (CHO) cells[5]. In contrast, human intravenous immunoglobulin (IVIG) IgG Fc N-glycans are predominantly α(2,6)-sialylated[6].



1. Harvey DJ, *et al.* Proposal for a standard system for drawing structural diagrams of N- and O-linked carbohydrates and related compounds. *Proteomics.* 2009, 9(15):3796–801.
2. Not all unlabeled glycans are shown.
3. Varki A, *et al.* Symbol Nomenclature for Graphical Representations of Glycans. *Glycobiology.* 2015 Dec; 25(12): 1323–1324.
4. Ceroni A, *et al.* GlycoWorkbench: a tool for the computer-assisted annotation of mass spectra of glycans. *J Proteome Res.* 2008 Apr;7(4):1650-9.
5. Lee EU, *et al.* Alteration of terminal glycosylation sequences on N-linked oligosaccharides of Chinese hamster ovary cells by expression of beta-galactoside alpha 2,6-sialyltransferase. *J Biol Chem.* 1989, 264(23), 13848-55.
6. Anthony RM, *et al.* Recapitulation of IVIG anti-inflammatory activity with a recombinant IgG Fc. *Science.* 2008, 320(5874), 373-6.

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ANALYTICAL SCIENCES +33 4 70 03 88 55 HotLine +33 4 70 03 73 09 interchrom@interchim.com

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Glycan	ProZyme name	Oxford name[1]	CFG structure	Unlabeled[2]	InstantPC	InstantAB	2-AB	2-AA	InstantQ	APTS
G2	NA2	A2G(4)2		GKC-024300	GKPC-304	GKIB-304	GKSB-304	GKSA--304	GKSQ-304	GKSP-304
G2F	NA2F	F(6)A2G(4)2		GKC-024301	GKPC-305	GKIB-305	GKSB-305	GKSA-305	GKSQ-305	GKSP-305
G2FB	NA2FB	F(6)A2BG(4)2		GKC-024311			GKSB-306			
G1S1 α(2,3)		A2G(4)1S(3)1			GKPC-329					
G1S1 α(2,6)		A2G(4)1S(6)1			GKPC-319					
G1FS1 α(2,3)		FA2G(4)1S(3)1			GKPC-330					
G1FS1 α(2,6)		FA2G(4)1S(6)1			GKPC-320					
G2S1 α(2,3)	A1(α2,3)	A2G(4)2S(3)1			GKPC-321					
G2S1 α(2,6)	A1(α2,6)	A2G(4)2S(6)1		GKC-124300	GKPC-311	GKIB-311	GKSB-311	GKSA-311	GKSQ-311	GKSP-311
G2FS1 α(2,3)	A1F(α2,3)	F(6)A2G(4)2S(3)1			GKPC-325				GKSQ-325	
G2FS1 α(2,6)	A1F(α2,6)	F(6)A2G(4)2S(6)1		GKC-124301	GKPC-315	GKIB-315	GKSB-315	GKSA-315	GKSQ-315	GKSP-315
G2S2 α(2,3)	A2(α2,3)	A2G(4)2S(3)2			GKPC-322				GKSQ-322	
G2S2 α(2,6)	A2(α2,6)	A2G(4)2S(6)2		GKC-224300	GKPC-312	GKIB-312	GKSB-312	GKSA-312	GKSQ-312	GKSP-312
G2FS2 α(2,3)	A2F(α2,3)	F(6)A2G(4)2S(3)2			GKPC-323				GKSQ-323	
G2FS2 α(2,6)	A2F(α2,6)	F(6)A2G(4)2S(6)2		GKC-224301	GKPC-313	GKIB-313	GKSB-313	GKSA-313	GKSQ-313	GKSP-313
G2F w/2 α-gal	NA2Ga2F	F(6)A2G(4)2Ga(3)2			GKPC-318		GKSB-318		GKSQ-318	GKSP-318
G1F w/1 α-gal	NA2G 1FGa1	F(6) A2G(4)1Ga(3)1			GKPC-403				GKSQ-403	
G2F w/1 α-gal	NA2FGa1	F(6)A2G(4)2Ga(3)1			GKPC-404				GKSQ-404	
A3	NGA3	A3		GKC-005300		GKIB-307	GKSB-307	GKSA-307		

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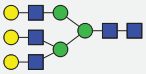
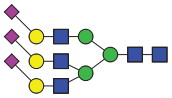
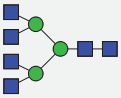
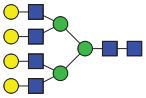
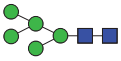
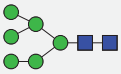
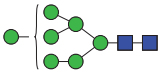
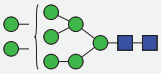
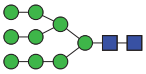
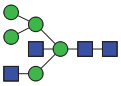
Glycan	ProZyme name	Oxford name[1]	CFG structure	Unlabeled[2]	InstantPC	InstantAB	2-AB	2-AA	InstantQ	APTS
G3	NA3	A3G(4)3		GKC-035300			GKSB-308	GKSA-308		
G3S3 α(2,6)	A3(a2,6)	A3G(4)3S(6)3		GKC-335300			GKSB-314		GKSQ-314	
A4	NGA4	A4		GKC-006300			GKSB-309	GKSA-309		
G4	NA4	A4G(4)4		GKC-046300			GKSB-310			
High Mannose-type Native N-Glycans										
Man5	MAN-5	M5		GKM-002500	GKPC-103	GKIB-103	GKSB-103	GKSA-103	GKSQ-103	GKSP-103
Man6	MAN-6	M6		GKM-002600	GKPC-104	GKIB-104	GKSB-104	GKSA-104	GKSQ-104	GKSP-104
Man7	MAN-7	M7		GKM-002700	GKPC-105	GKIB-105	GKSB-105	GKSA-105	GKSQ-105	GKSP-105
Man8	MAN-8	M8		GKM-002800	GKPC-106	GKIB-106	GKSB-106	GKSA-106	GKSQ-106	GKSP-106
Man9	MAN-9	M9		GKM-002900	GKPC-107	GKIB-107	GKSB-107	GKSA-107	GKSQ-107	GKSP-107
Hybrid-type Native N-Glycan										
Hybrid	HYBR	M5A1B					GKSB-111			
Native N-Glycan Cores										
NF	NF			GKR-001001						
NN	NN			GKR-002000			GKSB-100			
NNF	NNF			GKR-002001						
Man1	MNN	M1		GKR-002100						
Man1F	MNNF	F(6)M1		GKR-002101						
Man3				GKR-002300			GKSB-101			
Man3F				GKR-002301			GKSB-102			

Glycans	Unlabeled	InstantPC	InstantAB	2-AB	2-AA	InstantQ	APTS
N-Glycan Libraries							
Human IgG N-Glycan Library	GKLB-005	GKPC-005	GKIB-005	GKSB-005	GKSA-005	GKSQ-005	GKSP-005
CHO mAb N-Glycan Library		GKPC-020				GKSQ-020	
CHO mAb N-Glycan Library plus CHO mAb Glycoprotein		GKPC-020-P				GKSQ-020-P	
Human α1-acid glycop rotein N-Glycan Library	GKLB-001		GKIB-001	GKSB-001	GKSA-001		
Bovine Fetuin N-Glycan Library	GKLB-002		GKIB-002	GKSB-002	GKSA-002		
RNase B N-Glycan Library (High Mannose)			GKIB-009			GKSQ-009	
Biantennary and High Mannose Partitioned Library			GKIB-520	GKSB-520			GKSP-520
Sialylated Biantennary N-Glycan Library			GKIB-232	GKSB-232			GKSP-232
α(2,6) Sialylated Biantennary N-Glycan Library				GKSB-262			GKSP-262
α(2,3) Sialylated Triantennary N-Glycan Library		GKPC-233	GKIB-233	GKSB-233		GKSQ-233	GKSP-233
α(2,6) Sialylated Triantennary N-Glycan Library		GKPC-263		GKSB-263		GKSQ-263	GKSP-263
α(2,3) Sialylated Tetraantennary N-Glycan Library		GKPC-234	GKIB-234	GKSB-234		GKSQ-234	GKSP-234
α(2,6) Sialylated Tetraantennary N-Glycan Library		GKPC-264		GKSB-264		GKSQ-264	GKSP-264
Alignment Standards							
Glucose Unit (GU) Ladder		GKPC-503	GKIB-503	GKSB-503	GKSA-503	GKSQ-503	GKSP-503
Internal Migration Standards for Capillary Electrophoresis (CE)						GKSQ-500	GKSP-500
Gly-Q Alignment Standards Set						GKSQ-505	

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ANALYTICAL SCIENCES +33 4 70 03 88 55 HotLine +33 4 70 03 73 09 interchrom@interchim.com
interchim®
211 bis Av. J.F. Kennedy - BP 1140
03103 Montluçon - France
www.interchim.com